

## ABSTRACT OF THE DISCLOSURE

An optical wavelength switch having a planar wave guide formed on a substrate is disclosed that comprises a wave-guide-type diffraction grating which includes an  
5 input/output wave guide having an under-clad layer on a sacrificial layer formed on the substrate, a core layer formed on the under-clad layer and an over-clad layer formed on the core layer, a first slab wave guide connected with the input/output wave guide, an array wave guide whose one  
10 side is connected with the first slab wave guide, and a second slab wave guide with which the other side of the array wave guide is connected; and a movable girder whose one end is firmly secured to the substrate, the movable girder having the same under-clad layer, core layer and  
15 over-clad layer as those of the wave-guide-type diffraction grating, wherein the optical wavelength switch has a reflecting mirror at the tip of the movable girder, the reflecting mirror facing an end face of the second slab wave guide, with the position of the reflecting mirror being  
20 set displaceable along a direction perpendicular to the optical axis.